

In the Claims:

Kindly amend the claims as follows.

1. (Canceled)

2. (Canceled)

3. (Canceled)

4. (Currently Amended) A camera comprising:

a left lens system;

a right lens system;

a light sensor array;

a polarizing beam splitter (PBS) for combining light from the left lens system and light from the right lens system; [[and]]

a polarization filter for selecting between light from the left lens system and light from the right lens system, wherein the polarization filter is a liquid crystal device; and

a control unit for controlling the liquid crystal polarization filter to select between light from the left lens system and light from the right lens system.

5. (Original) The camera recited in claim 4 further comprising a sensor array to capture the selected light.

6. (Canceled)

7. (Canceled)

8. (Currently Amended) A camera comprising:

a left lens system;

a right lens system;

a polarizing beam splitter (PBS) for combining light from the left lens system and light from the right lens system; [[and]]

a light sensor array having a polarization filter allowing one half of sensors of the light sensor array to capture light from the left lens system and the other half of sensors of the light sensor array to capture light from the right lens system, wherein said polarization filter is a liquid crystal window; and

a control unit for switching said liquid crystal window between a first state wherein said polarization filter passes light having a first polarization direction and a second state, wherein said polarization filter passes light having a second polarization direction different from said first polarization direction.

9. (Currently Amended) A method of capturing a left image and a right image of a scene, the method comprising:

focusing light from a left lens system on a sensor array;

capturing, using the sensor array, the left image at a first instant in time;

focusing light from a right lens system on the sensor array;

[[and]]

capturing, using the sensor array, the right image at a second instant in time using the sensor array; and

using an electrically controllable liquid crystal filter to selectively capture said left image and said right image.

10. (Canceled)

11. (Currently Amended) A method of capturing a left image and a right image of a scene, the method comprising:

directing left polarized light from a left lens system on a sensor array, the light polarized in a first direction;

directing right polarized light from a right lens system on ~~[[a]]~~ the sensor array, the light polarized in a second direction, orthogonal to the first direction

selecting the left polarized light, by switching a liquid crystal filter to a first state wherein it passes said left polarized light, to capture the left image using ~~[[a]]~~ the sensor array; and

selecting the right polarized light, by switching a liquid crystal filter to a second state wherein it passes said right polarized light, to capture the right image using the sensor array.

12. (Canceled)

13. (Original) The method recited in claim 11 further comprising combining the left polarized light and the right polarized light.

14. (Original) The method recited in claim 13 wherein a polarized beam splitter (PBS) combines the left polarized light and the right polarized light.

15. (Previously Presented) The method recited in claim 9, wherein the left light is focused on the sensor array by a polarization beam combiner and a polarization filter.